

ABSTRACT OF THE DISCLOSURE

A low-cost fuel cell separator having a metallic substrate which is able to stably maintain low electric resistance (high electrical conductivity) and high corrosion resistance for a long period is provided. The separator has a metallic substrate
5 having an oxide film forming a surface thereof and made from an oxidization of a metal of the substrate, and an electrically conductive thin film formed on a surface of the oxide film of the substrate. Due to this construction, low electric resistance (high electrical conductivity) is achieved by the electrically conductive thin film.
Furthermore, even if the electrically conductive thin film has pinholes, the oxide film
10 substantially prevents or reduces elution from the separator substrate, thereby achieving high corrosion resistance. Still further, since the oxide film is formed by oxidation of the substrate, the oxide film can be formed at a lower cost than an oxide film formed from a different metal.